

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 September 2002 (06.09.2002)

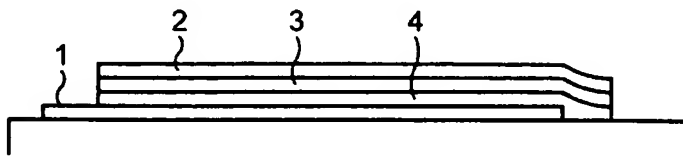
PCT

(10) International Publication Number
WO 02/069119 A3

- (51) International Patent Classification⁷: **H01L 51/40**
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- (21) International Application Number: **PCT/GB02/00845**
- (22) International Filing Date: 27 February 2002 (27.02.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
90 1 04585 27 February 2001 (27.02.2001) CN
0104875.0 28 February 2001 (28.02.2001) GB
0107740.3 28 March 2001 (28.03.2001) GB
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
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- Published:
— with international search report
- (88) Date of publication of the international search report:
27 February 2003
- (15) Information about Correction:
Previous Correction:
see PCT Gazette No. 45/2002 of 7 November 2002, Section II
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

WO 02/069119 A3

(54) Title: FORMULATION FOR DEPOSITING A MATERIAL ON A SUBSTRATE USING INK JET PRINTING



relatively low boiling point and which exhibits a relatively high solubility with respect to the material to be deposited.

(57) Abstract: A formulation for depositing a material on a substrate, the formulation comprising the material to be deposited on the substrate dissolved in a solvent system comprising a first solvent component having a relatively high boiling point and which exhibits a relatively low solubility with respect to the material to be deposited, and a second solvent component having a

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/GB 02/00845

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L51/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L C09D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 29789 A (BAINS GURJEET SINGH ;ROBBIE MAXWELL NEIL (AU); METAL SIGN & LABEL) 17 June 1999 (1999-06-17)	1,14,17
Y	page 7, line 16 - line 23 ---	16
Y	WO 99 12398 A (CAMBRIDGE DISPLAY TECH ;FRIEND RICHARD HENRY (GB)) 11 March 1999 (1999-03-11) the whole document ---	16
X	US 5 091 004 A (TABAYASHI ISAO ET AL) 25 February 1992 (1992-02-25) abstract --- -/--	1

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

22 August 2002

Date of mailing of the international search report

30/08/2002

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 02/00845

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 59267 A (KANBE SADA0 ;SEKI SHUNICHI (JP); SEIKO EPSON CORP (JP)) 5 October 2000 (2000-10-05)	1
P,X	& EP 1 083 775 A (SEIKO EPSON CORP.) 14 March 2001 (2001-03-14) paragraph '0052! - paragraph '0057! -----	1
A	WO 99 54385 A (DOW CHEMICAL CO) 28 October 1999 (1999-10-28) the whole document -----	18

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 02/00845

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9929789	A	17-06-1999	WO 9929789 A1	17-06-1999
			AU 739059 B2	04-10-2001
			AU 5185098 A	28-06-1999
WO 9912398	A	11-03-1999	WO 9912398 A1	11-03-1999
US 5091004	A	25-02-1992	JP 63264684 A	01-11-1988
WO 0059267	A	05-10-2000	CN 1310930 T	29-08-2001
			EP 1083775 A1	14-03-2001
			WO 0059267 A1	05-10-2000
WO 9954385	A	28-10-1999	US 6309763 B1	30-10-2001
			CN 1263542 T	16-08-2000
			EP 0988337 A1	29-03-2000
			JP 2002506481 T	26-02-2002
			WO 9954385 A1	28-10-1999
			US 2001026878 A1	04-10-2001

Form PCT/ISA/210 (patent family annex) (July 1992)

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